|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trial 1 | **Patient  Weight** | **DoF** | **Type of Trajectory** | **C-arm Lateral**  **(cm)** | **C-arm Vertical**  **(cm)** | **C-arm**  **Wigwag (degree)** | **C-arm Horizontal**  **(cm)** | **C-arm**  **Tilt (degree)** | **C-arm**  **Orbital (degree)** | **Table**  **Vertical (cm)** | **Table Longitudinal**  **(cm)** | **Table Transverse**  **(cm)** |
| Overweight | 9 | Trapezoidal Velocity  Profile Trajectory | -0.0093±0.0008 | -0.0134±0.0008 | 0.0049±0 | 0.0012±0.0005 | 0.1285±0.0009 | -0.0001±0 | 0.0109±0.0007 | 0.0641±0.0012 | 0.0062±0.0006 |
| Polynomial Trajectory | -0.0087±0.0008 | -0.0134±0 | 0.0049±0 | 0.0021±0.0005 | 0.1285±0.0009 | -0.0002±0 | 0.0109±0.0007 | 0.0641±0.0012 | 0.0062±0.0006 |
| Minimum Jerk  Polynomial Trajectory | -0.009±0.0008 | -0.0134±0 | 0.0049±0 | 0.001±0.0005 | 0.1285±0.0009 | -0.0001±0 | 0.0109±0.0007 | 0.0641±0.0012 | 0.0062±0.0006 |
| Minimum Snap  Polynomial Trajectory | -0.009±0.0008 | -0.0134±0 | 0.0049±0 | 0.0007±0.0005 | 0.1285±0.0009 | -0.0001±0 | 0.0109±0.0007 | 0.0641±0.0012 | 0.0062±0.0006 |
| Normal  Weight | 9 | Trapezoidal Velocity  Profile Trajectory | -0.0074±0.0008 | -0.0116±0 | 0.0049±0 | 0.0012±0.0005 | 0.1267±0.0009 | -0.0001±0 | 0.0123±0.0007 | 0.0616±0.0012 | 0.0046±0.0006 |
| Polynomial Trajectory | -0.0087±0.0008 | -0.0134±0 | 0.0049±0 | 0.0021±0.0005 | 0.1285±0.0009 | -0.0002±0 | 0.0109±0.0007 | 0.0641±0.0012 | 0.0064±0.0006 |
| Minimum Jerk  Polynomial Trajectory | -0.0072±0.0008 | -0.0116±0 | 0.0049±0 | 0.001±0.0005 | 0.1267±0.0009 | -0.0001±0 | 0.0123±0.0007 | 0.0616±0.0012 | 0.0062±0.0006 |
| Minimum Snap  Polynomial Trajectory | -0.0073±0.0008 | -0.0116±0 | 0.0049±0 | 0.0007±0.0005 | 0.1267±0.0009 | -0.0001±0 | 0.0123±0.0007 | 0.0616±0.0012 | 0.0062±0.0006 |
| Overweight | 8 | Trapezoidal Velocity  Profile Trajectory | -0.0063±0.0011 | -0.0141±0.0009 | 0.0045±0.0001 | 0.0035±0.0007 | 0.1022±0.0012 | -0.0001±0 | 0.0046±0.0012 | 0.0067±0.001 |  |
| Polynomial Trajectory | -0.006±0.0011 | -0.0141±0.0009 | 0.0045±0.0001 | 0.0036±0.0007 | 0.1022±0.0012 | -0.0002±0 | 0.0047±0.0012 | 0.0067±0.001 |  |
| Minimum Jerk  Polynomial Trajectory | -0.0064±0.0011 | -0.0141±0.0009 | 0.0045±0.0001 | 0.0022±0.0007 | 0.1022±0.0012 | -0.0001±0 | 0.0046±0.0012 | 0.0067±0.001 |  |
| Minimum Snap  Polynomial Trajectory | -0.0063±0.0011 | -0.0141±0.0009 | 0.0045±0.0001 | 0.0021±0.0007 | 0.1022±0.0012 | -0.0001±0 | 0.0046±0.0012 | 0.0067±0.001 |  |
| Normal  Weight | 8 | Trapezoidal Velocity  Profile Trajectory | -0.0042±0.0011 | -0.0123±0.0009 | 0.0046±0.0001 | 0.0033±0.0007 | 0.1045±0.0012 | -0.0001±0 | 0.0068±0.0012 | 0.0048±0.001 |  |
| Polynomial Trajectory | -0.0039±0.0011 | -0.0123±0.0009 | 0.0046±0.0001 | 0.0034±0.0007 | 0.1045±0.0012 | -0.0001±0 | 0.0068±0.0012 | 0.0048±0.001 |  |
| Minimum Jerk  Polynomial Trajectory | -0.0042±0.0011 | -0.0123±0.0009 | 0.0046±0.0001 | 0.0021±0.0007 | 0.1045±0.0012 | -0.0001±0 | 0.0068±0.0012 | 0.0048±0.001 |  |
| Minimum Snap  Polynomial Trajectory | -0.0042±0.0011 | -0.0123±0.0009 | 0.0046±0.0001 | 0.0021±0.0007 | 0.1045±0.0012 | -0.0001±0 | 0.0068±0.0012 | 0.0048±0.001 |  |
| Overweight | 7 | Trapezoidal Velocity  Profile Trajectory | -0.0297±0.0011 | -0.012±0.001 | -0.0057±0.0001 | 0.001±0.0018 | 0.1265±0.0013 | -0.0001±0 | 0.005±0.001 |  |  |
| Polynomial Trajectory | -0.0284±0.0011 | -0.012±0.001 | -0.0057±0.0001 | 0.0049±0.0018 | 0.1265±0.0013 | -0.0002±0 | 0.005±0.001 |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.028±0.0011 | -0.012±0.001 | -0.0057±0.0001 | 0.0052±0.0018 | 0.1265±0.0013 | -0.0001±0 | 0.005±0.001 |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0279±0.0011 | -0.012±0.001 | -0.0057±0.0001 | 0.0053±0.0018 | 0.1265±0.0013 | -0.0001±0 | 0.005±0.001 |  |  |
| Normal  Weight | 7 | Trapezoidal Velocity  Profile Trajectory | -0.0279±0.0011 | -0.0102±0.001 | -0.0058±0.0001 | 0.0012±0.0018 | 0.129±0.0013 | -0.0001±0 | 0.003±0.001 |  |  |
| Polynomial Trajectory | -0.0268±0.0011 | -0.0102±0.001 | -0.0058±0.0001 | 0.0046±0.0018 | 0.129±0.0013 | -0.0002±0 | 0.003±0.001 |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0264±0.0011 | -0.0102±0.001 | -0.0058±0.0001 | 0.0048±0.0018 | 0.129±0.0013 | -0.0001±0 | 0.003±0.001 |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0263±0.0011 | -0.0102±0.001 | -0.0058±0.0001 | 0.0049±0.0018 | 0.129±0.0013 | -0.0001±0 | 0.003±0.001 |  |  |
| Overweight | 6 | Trapezoidal Velocity  Profile Trajectory | -0.0107±0.001 | -0.012±0.0009 | 0.0006±0 | 0.0012±0.0018 | 0.1281±0.0013 | -0.0001±0.0001 |  |  |  |
| Polynomial Trajectory | -0.0092±0.001 | -0.012±0.0009 | 0.0007±0 | 0.0063±0.0018 | 0.1282±0.0013 | -0.0002±0.0001 |  |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0096±0.001 | -0.012±0.0009 | 0.0007±0 | 0.0051±0.0018 | 0.1282±0.0013 | -0.0002±0.0001 |  |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0097±0.001 | -0.012±0.0009 | 0.0007±0 | 0.005±0.0018 | 0.1282±0.0013 | -0.0002±0.0001 |  |  |  |
| Normal  Weight | 6 | Trapezoidal Velocity  Profile Trajectory | -0.0088±0.001 | -0.0102±0.0009 | 0.0006±0 | 0.0011±0.0018 | 0.1256±0.0013 | -0.0001±0.0001 |  |  |  |
| Polynomial Trajectory | -0.0075±0.001 | -0.0102±0.0009 | 0.0006±0 | 0.0056±0.0018 | 0.1256±0.0013 | -0.0002±0.0001 |  |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0079±0.001 | -0.0102±0.0009 | 0.0006±0 | 0.0045±0.0018 | 0.1256±0.0013 | -0.0002±0.0001 |  |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0079±0.001 | -0.0102±0.0009 | 0.0006±0 | 0.0045±0.0018 | 0.1256±0.0013 | -0.0002±0.0001 |  |  |  |
| Overweight | 5 | Trapezoidal Velocity  Profile Trajectory |  | -0.0122±0.0009 | 0±0 | -0.0043±0.0021 | 0.1117±0.0012 | 0.0001±0.0001 |  |  |  |
| Polynomial Trajectory |  | -0.0122±0.0009 | -0.0001±0 | 0.001±0.0021 | 0.1116±0.0012 | -0.0001±0.0001 |  |  |  |
| Minimum Jerk  Polynomial Trajectory |  | -0.0122±0.0009 | -0.0001±0 | 0.0009±0.0021 | 0.1116±0.0012 | -0.0001±0.0001 |  |  |  |
| Minimum Snap  Polynomial Trajectory |  | -0.0122±0.0009 | -0.0001±0 | 0.0008±0.0021 | 0.1116±0.0012 | -0.0001±0.0001 |  |  |  |
| Normal  Weight | 5 | Trapezoidal Velocity  Profile Trajectory |  | -0.0105±0.0009 | -0.0001±0 | -0.0037±0.0021 | 0.1093±0.0012 | 0.0001±0.0001 |  |  |  |
| Polynomial Trajectory |  | -0.0105±0.0009 | -0.0001±0 | 0.001±0.0021 | 0.1093±0.0012 | -0.0001±0.0001 |  |  |  |
| Minimum Jerk  Polynomial Trajectory |  | -0.0105±0.0009 | -0.0001±0 | 0.0009±0.0021 | 0.1093±0.0012 | -0.0001±0.0001 |  |  |  |
| Minimum Snap  Polynomial Trajectory |  | -0.0105±0.0009 | -0.0001±0 | 0.0009±0.0021 | 0.1093±0.0012 | -0.0001±0.0001 |  |  |  |
| Trial 2 | Overweight | 9 | Trapezoidal Velocity  Profile Trajectory | -0.0216±0.001 | -0.0131±0.0009 | -0.0024±0 | 0.0025±0.0005 | 0±0 | -0.0232±0.0002 | -0.0045±0.0006 | 0.031±0.001 | 0.0121±0.0009 |
| Polynomial Trajectory | -0.022±0.001 | -0.0131±0.0009 | -0.0024±0 | 0.0015±0.0005 | 0±0 | -0.0231±0.0002 | -0.0045±0.0006 | 0.031±0.001 | 0.0121±0.0009 |
| Minimum Jerk  Polynomial Trajectory | -0.022±0.001 | -0.0131±0.0009 | -0.0024±0 | 0.0013±0.0005 | 0±0 | -0.0231±0.0002 | -0.0045±0.0006 | 0.031±0.001 | 0.0121±0.0009 |
| Minimum Snap  Polynomial Trajectory | -0.0219±0.001 | -0.0131±0.0009 | -0.0024±0 | 0.0015±0.0005 | 0±0 | -0.0231±0.0002 | -0.0045±0.0006 | 0.031±0.001 | 0.0121±0.0009 |
| Normal  Weight | 9 | Trapezoidal Velocity  Profile Trajectory | -0.0195±0.001 | -0.0113±0.0009 | -0.0023±0 | 0.0024±0.0005 | 0±0 | -0.0227±0.0002 | -0.0033±0.0006 | 0.0289±0.001 | 0.0103±0.0009 |
| Polynomial Trajectory | -0.02±0.001 | -0.0113±0.0009 | -0.0023±0 | 0.0014±0.0005 | 0.0001±0 | -0.0227±0.0002 | -0.0033±0.0006 | 0.0289±0.001 | 0.0103±0.0009 |
| Minimum Jerk  Polynomial Trajectory | -0.02±0.001 | -0.0113±0.0009 | -0.0023±0 | 0.0012±0.0005 | 0±0 | -0.0227±0.0002 | -0.0033±0.0006 | 0.0289±0.001 | 0.0103±0.0009 |
| Minimum Snap  Polynomial Trajectory | -0.0199±0.001 | -0.0113±0.0009 | -0.0023±0 | 0.0014±0.0005 | 0±0 | -0.0227±0.0002 | -0.0033±0.0006 | 0.0289±0.001 | 0.0103±0.0009 |
| Overweight | 8 | Trapezoidal Velocity  Profile Trajectory | -0.0155±0.001 | -0.0133±0.0009 | -0.0003±0 | 0.0034±0.0008 | 0±0 | -0.0186±0 | 0.0067±0.0009 | 0.0114±0.0009 |  |
| Polynomial Trajectory | -0.0158±0.001 | -0.0133±0.0009 | -0.0003±0 | 0.0032±0.0008 | 0±0 | -0.0185±0 | 0.0067±0.0009 | 0.0115±0.0009 |  |
| Minimum Jerk  Polynomial Trajectory | -0.0158±0.001 | -0.0133±0.0009 | -0.0003±0 | 0.0019±0.0008 | 0±0 | -0.0186±0 | 0.0067±0.0009 | 0.0114±0.0009 |  |
| Minimum Snap  Polynomial Trajectory | -0.0159±0.001 | -0.0133±0.0009 | -0.0003±0 | 0.0012±0.0008 | 0±0 | -0.0186±0 | 0.0067±0.0009 | 0.0114±0.0009 |  |
| Normal  Weight | 8 | Trapezoidal Velocity  Profile Trajectory | -0.0136±0.001 | -0.0115±0.0009 | -0.0003±0 | 0.0032±0.0008 | 0±0 | -0.0185±0 | 0.005±0.0009 | 0.0097±0.0009 |  |
| Polynomial Trajectory | -0.0139±0.001 | -0.0115±0.0009 | -0.0003±0 | 0.003±0.0008 | 0±0 | -0.0185±0 | 0.005±0.0009 | 0.0097±0.0009 |  |
| Minimum Jerk  Polynomial Trajectory | -0.0139±0.001 | -0.0115±0.0009 | -0.0003±0 | 0.0019±0.0008 | 0±0 | -0.0185±0 | 0.005±0.0009 | 0.0097±0.0009 |  |
| Minimum Snap  Polynomial Trajectory | -0.0139±0.001 | -0.0115±0.0009 | -0.0003±0 | 0.0013±0.0008 | 0±0 | -0.0185±0 | 0.005±0.0009 | 0.0097±0.0009 |  |
| Overweight | 7 | Trapezoidal Velocity  Profile Trajectory | -0.0226±0.001 | -0.0135±0.0009 | -0.0022±0 | 0.0031±0.0008 | 0±0 | -0.0194±0.0001 | 0.0117±0.0009 |  |  |
| Polynomial Trajectory | -0.0221±0.001 | -0.0135±0.0009 | -0.0022±0 | 0.005±0.0008 | 0±0 | -0.0195±0.0001 | 0.0117±0.0009 |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0223±0.001 | -0.0135±0.0009 | -0.0022±0 | 0.0035±0.0008 | 0±0 | -0.0194±0.0001 | 0.0117±0.0009 |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0223±0.001 | -0.0135±0.0009 | -0.0022±0 | 0.0031±0.0008 | 0±0 | -0.0194±0.0001 | 0.0117±0.0009 |  |  |
| Normal  Weight | 7 | Trapezoidal Velocity  Profile Trajectory | -0.0206±0.001 | -0.0117±0.0009 | -0.0022±0 | 0.0027±0.0008 | 0±0 | -0.0193±0.0001 | 0.01±0.0009 |  |  |
| Polynomial Trajectory | -0.0203±0.001 | -0.0117±0.0009 | -0.0022±0 | 0.0044±0.0008 | 0±0 | -0.0193±0.0001 | 0.01±0.0009 |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0204±0.001 | -0.0117±0.0009 | -0.0022±0 | 0.003±0.0008 | 0±0 | -0.0193±0.0001 | 0.01±0.0009 |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0204±0.001 | -0.0117±0.0009 | -0.0022±0 | 0.0027±0.0008 | 0±0 | -0.0193±0.0001 | 0.01±0.0009 |  |  |
| Overweight | 6 | Trapezoidal Velocity  Profile Trajectory | -0.0269±0.0016 | -0.0141±0.0011 | -0.0002±0 | -0.0138±0.001 | 0.0009±0 | 0.0002±0 |  |  |  |
| Polynomial Trajectory | -0.0259±0.0016 | -0.0141±0.0011 | -0.0002±0 | -0.0139±0.001 | 0.0008±0 | 0.0001±0 |  |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.026±0.0016 | -0.0141±0.0011 | -0.0002±0 | -0.014±0.001 | 0.0008±0 | 0.0001±0 |  |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0259±0.0016 | -0.0141±0.0011 | -0.0002±0 | -0.0135±0.001 | 0.0008±0 | 0.0001±0 |  |  |  |
| Normal  Weight | 6 | Trapezoidal Velocity  Profile Trajectory | -0.0301±0.0016 | -0.0162±0.0011 | -0.0002±0 | -0.0159±0.001 | 0.0009±0 | 0.0002±0 |  |  |  |
| Polynomial Trajectory | -0.029±0.0016 | -0.0162±0.0011 | -0.0002±0 | -0.016±0.001 | 0.0008±0 | 0.0001±0 |  |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0291±0.0016 | -0.0162±0.0011 | -0.0002±0 | -0.0156±0.001 | 0.0008±0 | 0.0001±0 |  |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0291±0.0016 | -0.0162±0.0011 | -0.0002±0 | -0.0156±0.001 | 0.0008±0 | 0.0001±0 |  |  |  |
| Overweight | 5 | Trapezoidal Velocity  Profile Trajectory |  | -0.0135±0.0009 | 0.0005±0 | -0.0029±0.001 | 0±0 | -0.0181±0 |  |  |  |
| Polynomial Trajectory |  | -0.0135±0.0009 | 0.0005±0 | -0.0006±0.001 | 0±0 | -0.0181±0 |  |  |  |
| Minimum Jerk  Polynomial Trajectory |  | -0.0135±0.0009 | 0.0005±0 | -0.0004±0.001 | 0±0 | -0.0181±0 |  |  |  |
| Minimum Snap  Polynomial Trajectory |  | -0.0135±0.0009 | 0.0005±0 | -0.0004±0.001 | 0±0 | -0.0181±0 |  |  |  |
| Normal  Weight | 5 | Trapezoidal Velocity  Profile Trajectory |  | -0.0117±0.0009 | 0.0005±0 | -0.0025±0.001 | 0±0 | -0.0181±0 |  |  |  |
| Polynomial Trajectory |  | -0.0117±0.0009 | 0.0005±0 | -0.0005±0.001 | 0±0 | -0.0181±0 |  |  |  |
| Minimum Jerk  Polynomial Trajectory |  | -0.0117±0.0009 | 0.0005±0 | -0.0004±0.001 | 0±0 | -0.0181±0 |  |  |  |
| Minimum Snap  Polynomial Trajectory |  | -0.0117±0.0009 | 0.0005±0 | -0.0004±0.001 | 0±0 | -0.0181±0 |  |  |  |
| Trial 3 | Overweight | 9 | Trapezoidal Velocity  Profile Trajectory | -0.0222±0.0011 | -0.0136±0.0009 | -0.0025±0 | 0.0015±0.0002 | 0±0 | -0.0002±0 | -0.0055±0.0008 | 0.0301±0.001 | 0.0117±0.0009 |
| Polynomial Trajectory | -0.0223±0.0011 | -0.0136±0.0009 | -0.0025±0 | 0.0014±0.0002 | 0±0 | -0.0002±0 | -0.0055±0.0008 | 0.0301±0.001 | 0.0117±0.0009 |
| Minimum Jerk  Polynomial Trajectory | -0.0224±0.0011 | -0.0136±0.0009 | -0.0025±0 | 0.0014±0.0002 | 0±0 | -0.0001±0 | -0.0055±0.0008 | 0.0301±0.001 | 0.0117±0.0009 |
| Minimum Snap  Polynomial Trajectory | -0.0227±0.0011 | -0.0136±0.0009 | -0.0025±0 | 0.0019±0.0002 | 0±0 | -0.0001±0 | -0.0055±0.0008 | 0.0301±0.001 | 0.0117±0.0009 |
| Normal  Weight | 9 | Trapezoidal Velocity  Profile Trajectory | -0.0202±0.0011 | -0.0119±0.0009 | -0.0024±0 | 0.0014±0.0002 | 0±0 | -0.0002±0 | -0.0038±0.0008 | 0.0282±0.001 | 0.01±0.0009 |
| Polynomial Trajectory | -0.0203±0.0011 | -0.0119±0.0009 | -0.0024±0 | 0.0013±0.0002 | 0±0 | -0.0001±0 | -0.0038±0.0008 | 0.0282±0.001 | 0.01±0.0009 |
| Minimum Jerk  Polynomial Trajectory | -0.0204±0.0011 | -0.0119±0.0009 | -0.0025±0 | 0.0013±0.0002 | 0±0 | -0.0001±0 | -0.0038±0.0008 | 0.0282±0.001 | 0.01±0.0009 |
| Minimum Snap  Polynomial Trajectory | -0.0206±0.0011 | -0.0119±0.0009 | -0.0024±0 | 0.0017±0.0002 | 0±0 | -0.0001±0 | -0.0038±0.0008 | 0.0282±0.001 | 0.01±0.0009 |
| Overweight | 8 | Trapezoidal Velocity  Profile Trajectory | -0.0253±0.0037 | -0.0133±0.0009 | 0.0019±0.0001 | 0.0004±0.0006 | 0±0 | -0.0002±0 | -0.007±0.0061 | 0.0123±0.0009 |  |
| Polynomial Trajectory | -0.0254±0.0037 | -0.0133±0.0009 | 0.0019±0.0001 | -0.0013±0.0006 | 0±0 | -0.0001±0 | 0.007±0.0061 | 0.0123±0.0009 |  |
| Minimum Jerk  Polynomial Trajectory | -0.0246±0.0037 | -0.0133±0.0009 | 0.002±0.0001 | 0.0005±0.0006 | 0±0 | -0.0001±0 | 0.007±0.0061 | 0.0123±0.0009 |  |
| Minimum Snap  Polynomial Trajectory | -0.0254±0.0037 | -0.0133±0.0009 | 0.002±0.0001 | 0.0006±0.0006 | 0±0 | -0.0002±0 | 0.007±0.0061 | 0.0123±0.0009 |  |
| Normal  Weight | 8 | Trapezoidal Velocity  Profile Trajectory | -0.0135±0.0037 | -0.0115±0.0009 | 0.0019±0.0001 | 0.0004±0.0006 | 0±0 | -0.0002±0 | -0.0052±0.0061 | 0.0106±0.0009 |  |
| Polynomial Trajectory | -0.0234±0.0037 | -0.0115±0.0009 | 0.0019±0.0001 | 0.0011±0.0006 | 0±0 | -0.0001±0 | -0.0052±0.0061 | 0.0106±0.0009 |  |
| Minimum Jerk  Polynomial Trajectory | -0.0226±0.0037 | -0.0115±0.0009 | 0.002±0.0001 | 0.0004±0.0006 | 0±0 | -0.0001±0 | -0.0052±0.0061 | 0.0106±0.0009 |  |
| Minimum Snap  Polynomial Trajectory | -0.0234±0.0037 | -0.0115±0.0009 | 0.002±0.0001 | 0.0005±0.0006 | 0±0 | -0.0001±0 | -0.0052±0.0061 | 0.0106±0.0009 |  |
| Overweight | 7 | Trapezoidal Velocity  Profile Trajectory | -0.0203±0.0009 | -0.0141±0.0009 | 0.0007±0 | 0.0041±0.0003 | 0±0 | -0.0003±0.0001 | 0.0117±0.0009 |  |  |
| Polynomial Trajectory | -0.0204±0.0009 | -0.0141±0.0009 | 0.0007±0 | 0.0038±0.0003 | 0±0 | -0.0002±0.0001 | 0.0117±0.0009 |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0202±0.0009 | -0.0141±0.0009 | 0.0007±0 | 0.0039±0.0003 | 0±0 | -0.0001±0.0001 | 0.0117±0.0009 |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0202±0.0009 | -0.0141±0.0009 | 0.0007±0 | 0.0036±0.0003 | 0±0 | -0.0001±0.0001 | 0.0117±0.0009 |  |  |
| Normal  Weight | 7 | Trapezoidal Velocity  Profile Trajectory | -0.0185±0.0009 | -0.0123±0.0009 | 0.0007±0 | 0.0037±0.0003 | 0±0 | -0.0003±0.0001 | 0.0099±0.0009 |  |  |
| Polynomial Trajectory | -0.0185±0.0009 | -0.0123±0.0009 | 0.0007±0 | 0.0033±0.0003 | 0±0 | -0.0002±0.0001 | 0.0099±0.0009 |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0184±0.0009 | -0.0123±0.0009 | 0.0007±0 | 0.0034±0.0003 | 0±0 | -0.0001±0.0001 | 0.0099±0.0009 |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0184±0.0009 | -0.0123±0.0009 | 0.0007±0 | 0.0032±0.0003 | 0±0 | -0.0001±0.0001 | 0.0099±0.0009 |  |  |
| Overweight | 6 | Trapezoidal Velocity  Profile Trajectory | -0.0225±0.0036 | -0.0139±0.0012 | -0.0006±0.0002 | 0.0005±0.0082 | 0±0.0004 | -0.0002±0.0002 |  |  |  |
| Polynomial Trajectory | -0.0223±0.0036 | -0.0139±0.0012 | -0.0006±0.0002 | 0.0002±0.0082 | 0±0.0004 | -0.0001±0.0002 |  |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0219±0.0036 | -0.0139±0.0012 | -0.0006±0.0002 | 0.001±0.0082 | 0±0.0004 | -0.0001±0.0002 |  |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0219±0.0036 | -0.0139±0.0012 | -0.0006±0.0002 | 0.0008±0.0082 | 0±0.0004 | -0.0001±0.0002 |  |  |  |
| Normal  Weight | 6 | Trapezoidal Velocity  Profile Trajectory | -0.0301±0.0036 | -0.0162±0.0012 | -0.0002±0.0002 | -0.0159±0.0082 | 0.0009±0.0004 | 0.0002±0.0002 |  |  |  |
| Polynomial Trajectory | -0.029±0.0036 | -0.0162±0.0012 | -0.0002±0.0002 | -0.016±0.0082 | 0.0008±0.0004 | 0.0001±0.0002 |  |  |  |
| Minimum Jerk  Polynomial Trajectory | -0.0291±0.0036 | -0.0162±0.0012 | -0.0002±0.0002 | -0.0156±0.0082 | 0.0008±0.0004 | 0.0001±0.0002 |  |  |  |
| Minimum Snap  Polynomial Trajectory | -0.0291±0.0036 | -0.0162±0.0012 | -0.0002±0.0002 | -0.0156±0.0082 | 0.0008±0.0004 | 0.0001±0.0002 |  |  |  |
| Overweight | 5 | Trapezoidal Velocity  Profile Trajectory |  | -0.0139±0.0009 | 0.0008±0 | 0.0024±0.0026 | 0±0 | -0.0003±0.0001 |  |  |  |
| Polynomial Trajectory |  | -0.0139±0.0009 | 0.0008±0 | -0.004±0.0026 | -0.0001±0 | -0.0001±0.0001 |  |  |  |
| Minimum Jerk  Polynomial Trajectory |  | -0.0139±0.0009 | 0.0008±0 | -0.0039±0.0026 | 0±0 | -0.0001±0.0001 |  |  |  |
| Minimum Snap  Polynomial Trajectory |  | -0.0139±0.0009 | 0.0008±0 | -0.0038±0.0026 | 0±0 | -0.0001±0.0001 |  |  |  |
| Normal  Weight | 5 | Trapezoidal Velocity  Profile Trajectory |  | -0.0121±0.0009 | 0.0008±0 | 0.0022±0.0026 | 0±0 | -0.0002±0.0001 |  |  |  |
| Polynomial Trajectory |  | -0.0121±0.0009 | 0.0008±0 | -0.0034±0.0026 | -0.0001±0 | -0.0001±0.0001 |  |  |  |
| Minimum Jerk  Polynomial Trajectory |  | -0.0121±0.0009 | 0.0008±0 | -0.0033±0.0026 | -0.0001±0 | -0.0001±0.0001 |  |  |  |
| Minimum Snap  Polynomial Trajectory |  | -0.0121±0.0009 | 0.0008±0 | -0.0033±0.0026 | -0.0001±0 | -0.0001±0.0001 |  |  |  |